D. Kruse   *Re-run*

● #4

RAW SEQUENCE LISTING   DATE: 01/14/2003
PATENT APPLICATION: **US/09/954,773A**   TIME: 14:52:26

Input Set : **N:\paola\US09954773A.raw**
Output Set: **N:\CRF4\01142003\I954773A.raw**

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  1 <110> APPLICANT: Southern Illinois University
  2        Lightfoot, David A
  3        Gibson, Paul T
  4        Meksem, Khalid
  5 <120> TITLE OF INVENTION: SOYBEAN SUDDEN DEATH SYNDROME RESISTANT SOYBEANS, SOYBEAN
CYST NEMATODE
  6        RESISTANT SOYBEANS AND METHODS OF BREEDING AND IDENTIFYING RESISTANT PLANTS
  7 <130> FILE REFERENCE: 1268/2/2
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/954,773A
  9 <141> CURRENT FILING DATE: 2002-01-22
 10 <150> PRIOR APPLICATION NUMBER: 09/007,119
 11 <151> PRIOR FILING DATE: 1998-01-14
 12 <160> NUMBER OF SEQ ID NOS: 20
 13 <170> SOFTWARE: PatentIn version 3.1
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 527
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Glycine max
 19 <220> FEATURE:
 20 <221> NAME/KEY: misc_feature
 21 <222> LOCATION: (1)..(527)
 22 <223> OTHER INFORMATION: n is a, c, g, or t/u
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 25        tgaaatcagg tgatcaagcg aaaaataagc attaagcgta gaagagaagc aataacattt   120
 26        ttttattaaa taataaaaga gtaattacat aaaaatatgt tcgattacat taaaccccaa   180
 27        caaaggatga atttagcttc tcatgaccat ggggaaaatc aaacttgatg aacaagaaga   240
 28        tgaagaagaa tccttaagga taaacactgc ctagctccaa tgtgctctct agtattttat   300
 29        ctttcaaaaa tccccaagaa cccctaattt tcagtaagaa gcccattttc aatcagaagc   360
 30        ccattttcaa tcaagaagcc cattttcaat cagaagccca ttttcaatca gaagcccatt   420
 31        ttcaatcaga gcccatttt caatcagaag cccattttat aattgtattc caaaacttg    480
 32        agattcttga acgtaaatta ttagtaaatt gtaatcacct ctgtaaa              527
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 815
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Glycine max
 38 <220> FEATURE:
 39 <221> NAME/KEY: misc_feature
 40 <222> LOCATION: (1)..(815)
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 44        gttgggagct ctcccatatg gtcgacctgc aggcggccgc actagtgatt cagaagccca   120
 45        aaggtaacag caataagtaa tccttgtttt ataagatccc agaacttcca gtttatttaa   180
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ENTERED

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Input Set : N:\paola\US09954773A.raw
Output Set: N:\CRF4\01142003\I954773A.raw

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        47      actacaatat atagtacata aattaacact aagaaacctc cttgatttga tattatgcat    300
        48      ttacctatgt tgttccacaa gaatatactc aaatgacttt gccttgattt aaattatcac    360
W--> 49      gatgtaacac aaacaaagat gatantttgt cgatcaactg ttcagcacca agagagccct    420
W--> 50      ccccacaatc aactcaggtt ttcacttttg gtgcttgaaa atgagtggca catgnaaaag    480
W--> 51      caagagtcnt ctttgacaaa tgtgcctgcc ganagttatc antacttact aacaagataa    540
W--> 52      tgagccaaaa catcatctgg gncatcaacc ttcatgnctt tntcaagttt atacctatna    600
W--> 53      ntnactangt cttatatttn canntggtga ttacanttac nantaagttt agcttnaaga    660
W--> 54      aatncaagtt ttngggactc catgcctngn cnggntttcn natccgtcgg ccagggcggn    720
W--> 55      cnggnncact gntnggnagn cccanttncn cagancacng ncccntttcc attccnggnc    780
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        60 <212> TYPE: DNA
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        65 <223> OTHER INFORMATION: n is a, c, g, or t/u
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        69      gtttatagta acttcattgc aaaactcaac aaatagattt ttggaacctt aatataataa    180
        70      aattcaacag tcttctttaa ttttattctg ctcttacctt ctcataggat catatagaat    240
        71      ttaaccctac aagctctcaa aaaacaatcc attattatgc tccttatcca ataaaacaaa    300
W--> 72      accatagagt gattctcaaa atgaagattg acaaaggcaa aaagttatgc tggntcaata    360
W--> 73      gcttctttat aattntcttc atcttgcacc ntcccngcct taggnggtct ccattgtcaa    420
W--> 74      tccaaaggtn ntcgn    435
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        86      tcgctcatat ggccttacag ggtttgccga attagtgtga aggtaattcg gtaaatggat    120
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        97 <223> OTHER INFORMATION: n is a, .c, g, or t/u
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RAW SEQUENCE LISTING   DATE: 01/14/2003
PATENT APPLICATION: **US/09/954,773A**   TIME: 14:52:26

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Output Set: **N:\CRF4\01142003\I954773A.raw**

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     103      atttgagagg aagaatccat gtagtaaaaa atgatgataa aattgttaga aaatatagtg  300
     104      tcatgtaatt agagattcag attataactt agaagacact attattttca tgtaatacta  360
     105      tccacgggta attatcaata ctgacatatt ttcactcaaa atattctggt tttctcatta  420
W--> 106      tatacattta aataggagct attanccatt gcaagcttgg gtttggaggc cttccgatgc  480
W--> 107      cttgttggga ttgngacca                                               499
 109 <210> SEQ ID NO: 6
 110 <211> LENGTH: 500
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 112 <213> ORGANISM: Glycine max
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 114 <221> NAME/KEY: misc_feature
 115 <222> LOCATION: (1)..(500)
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W--> 120      tgcaggnnat ccatttccat actaaaatgg acaaaactta tatttttttt ttagcggcaa  180
W--> 121      acgttaatta ttaatttttt ttagtacaag ggatcaaacc angacctttc ccttctttcc  240
     122      atctttcttg accacccaac caaccttata tctccacaaa acttattata tgttgttctt  300
W--> 123      cggggactat cagaattgga gtttaacctc gggcantcaa tctacataat ccttgatttn  360
W--> 124      atttngtgaa gttctaaagc cacaggcatt atttatntta ttntttctgn agtaacccnc  420
W--> 125      catatgttgg tnnataaggg tangnatnaa aatncnttgg ntggtnncna tttgcncttn  480
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 134 <222> LOCATION: (1)..(189)
 135 <223> OTHER INFORMATION: n is a, c, g, or t/u
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W--> 138      agggagagag agagagagag aganantnaa nataacgatg aagctctccc tattgacggt  120
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        153      taacttatta acgtttcaca ttttcaaaga cgagtctagc tatttataat ttttttttcct    180
        154      aaaatatatt ttttgtcctc ataaatatga aaatatttaa aattcgttcc taattttttt    240
        155      ttcaaagcat cttcctct cacaaaattg aaatgtatca ttttttttg ttcaaaagtt      300
        156      taaataaatt tgaacctaat atgacatttt atatcggtta tacatataac tgatataaac     360
        157      atcaagtttt ttatatcaat gatacctata actgatatca aatgtgacaa ttatatatat     420
        158      aattaatgta aaaagtcat aaatataatt tattttgagt caaaaaataa tatattttaa     480
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        160      gttttttttc ctggtttaaa tgcaaaacca atgctatttt atttaaattt tacctttttt     600
W--> 161      ttataattac nccaccaaaa aaccgtttgg tgttacaaat ttganttaaa ttctnttgtt     660
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        176      gcacacaccc tatctttcat aaaattacta cactttttaa tttttgtaat aaaaaaccta     180
        177      gaaaaactca ttatgaaaca gatgatgtac ttttaacact ctgtcggcct ctctctctct     240
        178      attatatatt gatttaaatt tattgagaat tatattttg ttgggtctca tttattatat     300
        179      tttattaatt ggatccgggc cctctagatg cggccgcatg cataagcttg agtattctat     360
        180      agtgtcacct aaatagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt     420
W--> 181      atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtnaa gcctggggtn     480
W--> 182      cctaatgagt gagctaactc acattaattg ccttgcgctc actgcccgct ttccagtcng     540
W--> 183      gaaacctgtc ctgccagctg cattaatgaa tcngccaacc cncgggana agcngtttgc     600
W--> 184      ntatgggcgc tcttnccgct tcctcgctca ntgactcgct gcgctcngtc nttcngntgc     660
W--> 185      cgcgaacggt atcancncac tcnaangnng taaatacggt tatccaccna accnnggga     720
W--> 186      naacccngga aaaaacatgt nanccaaaag gccnccaaaa ggccangaaa cnttnaaaag     780
W--> 187      gcccnnttgc ttgncttnt n                                                801
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RAW SEQUENCE LISTING   DATE: 01/14/2003
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Input Set : N:\paola\US09954773A.raw
Output Set: N:\CRF4\01142003\I954773A.raw

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          203       atgataacaa gttccaatga aggacatttt agaaataacc ttattttta tttgagatta    360
          204       gtaaaattaa atgatgtgaa ctaactttct taattaatgt gaaattagtt attttttctt    420
          205       atatacgagt ccaaagggag taccaaattt cacaaatgta ctaaaatgta ttatatgctt    480
W--> 206       ctttttaatt catctttgct gcatanctac ttagctactg tgctctgatc cggccctct    540
          207       agatgcggcc gcatgcataa gcttgagtat ctatagtgtc cctaaatagc ttggcgtatc    600
W--> 208       atggtcatag ctgtttccng tgtgaaattg ttatccgctc acaattccac acaacatacg    660
W--> 209       anccggaagc ataaaagtgt taagccnggg gtgcctaatg agtgagctaa ctcacattaa    720
W--> 210       ttgcgttgcg ctcactgccc gcttccnatt cgggaaactg tcctgncanc tgcattaatg    780
W--> 211       aatcnggcca acccncnggg aaaaggcgg                                       809
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          214 <211> LENGTH: 810
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          216 <213> ORGANISM: Glycine max
          217 <220> FEATURE:
          218 <221> NAME/KEY: misc_feature
          219 <222> LOCATION: (1)..(810)
          220 <223> OTHER INFORMATION: n is a, c, g, or t/u
          221 <400> SEQUENCE: 11
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          224       agaggggctg attttggaga aaacatcatc catggtataa agtccgttta gattccagct    180
          225       attgttcaca ttcatccctt acatatgaga atatccctat aagctgaaac taactttac    240
          226       aaacaaacat gcaccgaacc attaaagttt gacttaatat ccggggtata atgaccttaa    300
          227       ttcagaaatt cacataaata actaaaagta agttgtattt tatttatgtc tggatttact    360
          228       gcacaaacta aacaaaagtt tgtggattta gacataaaaa ataccaatgc tgtgtgaaaa    420
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W--> 230       ccatcangag gttcatgtaa ttaaccaaac tagacgttga cttttggttt tatccttttg    540
          231       tagaatagca agcaagtcat tataaatctg gccattggga cagcttagtt taactcccgc    600
W--> 232       cgcaaatttg ttaaaatatt naataataat atcacctaaa atcatatttg tcanttcatt    660
W--> 233       ttgtttttang ttatatcaat tattatttt taccttacnt cctttataat ntcaatgatg    720
W--> 234       ggacccaaaa aattatcaaa tacnttnaag cnttatttat tattaattaa ncctttaatt    780
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          240 <213> ORGANISM: Glycine max
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          243 <222> LOCATION: (1)..(777)
          244 <223> OTHER INFORMATION: n is a, c, g, or t/u
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          247       catctagagg gcccggatct ttcggttgaa gcaaaattga agtcttttgc tcattttat    120
          248       caaattcttt aatgaaaagt taattacata aaatatttta gtagaagcaa ttttacacag    180
          249       ttattatta aaaaaattac acagttattc aataacaaat tacaatatat tataaggtta    240
          250       taataaatat tttaaaattc atataaaaga tgacttatta ataagttgat aatgtaaatt    300
          251       ttttacacta ttaaactcat tttacgtaat cttagcgaca acatactatt tttttcatga    360
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/14/2003
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:4; N Pos. 46,54,137,144,159,165,170
Seq#:5; N Pos. 92,445,494
Seq#:6; N Pos. 1,4,85,127,128,222,336,360,365,397,403,410,419,432,433,443
Seq#:6; N Pos. 445,448,454,456,461,466,467,469,476,480,482,496
Seq#:7; N Pos. 1,2,7,9,11,53,84,86,88,91,171
Seq#:8; N Pos. 525,611,645,655,672,674,682,687,697,703,706,708,712,714,719
Seq#:9; N Pos. 11,468,480,539,573,582,589,594,601,615,631,647,651,655,657
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/14/2003
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Input Set : N:\paola\US09954773A.raw
Output Set: N:\CRF4\01142003\I954773A.raw

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5,6

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/954,773A**

Input Set : **N:\paola\US09954773A.raw**
Output Set: **N:\CRF4\01142003\I954773A.raw**

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L:8 M:270 C: Current Application Number differs, Wrong Format
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:540
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:600
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:660
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:720
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:780
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:420
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:120
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:120
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:180
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:360
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:480
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:120
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:600
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:660
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:540
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:600
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:660
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:720
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:780
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:480
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:720
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:780
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:420
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:480
```

VERIFICATION SUMMARY   DATE: 01/14/2003
PATENT APPLICATION: **US/09/954,773A**   TIME: 14:52:27

Input Set : **N:\paola\US09954773A.raw**
Output Set: **N:\CRF4\01142003\I954773A.raw**

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L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:600
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:660
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:720
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